

Dear children, parents/carers of Year 6,

We hope you are all keeping well and safe in this challenging time.

Here is an overview of the activities we would like year 6 to complete at home over the coming week. Year 6 have made fantastic progress this year and we want to ensure that we can continue to build upon this during these difficult times.

We have included a suggested weekly timetable and a day by day set of activities for year 6 to follow and complete.

We hope you find this an enjoyable and easy to use guide.

Thank you in advance for your support.

Take care and keep smiling,

Mrs Graham and Mrs North

Suggested timetable for the week

	Monday	Tuesday	Wednesday	Thursday	Friday
1 hour	English	English	English	English	English
1hour	Maths	Maths	Maths	Maths	Maths
30 minutes	Reading	Reading	Reading	Reading	Reading
1hour	Science/ topic	Science/ topic	Science/ topic	Science/ topic	Science/ topic
1 hour	Learning at home	Learning at home	Learning at home	Learning at home	Learning at home

Learning at home is about doing something that you choose to do. Perhaps it will be learning a new skill, trying something you have never done before or maybe something you love doing. Some ideas might be: cooking or baking using a recipe, puzzles, reading with someone in your family, laundry, cleaning, gardening or sewing, watch a film and write a review, build a fort, paint, play a game, yoga, make a dance routine...the list is endless!

Remember to spend at least an hour everyday being active.

Remember to have some calm, quiet time every day without a screen!

Monday 30th March

English Activity 1a - reading comprehension

1. Start by reading the extracts which tell us about when Hagrid first appears.

- Read Extract A - then answer the questions on it.
- Read Extract B - then answer the questions on it.

You can use your English homework book or English revision book to write in.

Don't give up too easily. Well done!

Now work with a grown-up to check the answers (they are all at the end of the powerpoint). Discuss any answers which you didn't quite get. Can you see what went wrong?

BOOM. They knocked again. Dudley jerked awake.

'Where's the cannon?' he said stupidly.

There was a crash behind them and Uncle Vernon came skidding into the room. He was holding a rifle in his hands - now they knew what had been in the long, thin package he had brought with them.

'Who's there?' he shouted. 'I warn you - I'm armed!'

There was a pause. Then -

SMASH!

The door was hit with such force that it swung clean off its hinges and with a deafening crash landed flat on the floor.

A giant of a man was standing in the doorway. His face was almost completely hidden by a long, shaggy mane of hair and a wild, tangled beard, but you could make out his eyes, glinting like black beetles under all the hair.

The giant squeezed his way into the hut, stooping so that his head just brushed the ceiling. He bent down, picked up the door and fitted it easily into its frame. The noise of the storm outside dropped a little.

He turned to look at them all.

'Couldn't make us a cup'o'tea, could yeh? It's not been an easy journey...'

He strode over to the sofa where Dudley sat frozen with fear.

'Budge up, yeh great lump,' said the stranger.

Dudley squeaked and ran to hide behind his mother, who was crouching, terrified, behind Uncle Vernon.

'An' here's Harry!' said the giant.

Harry looked up into the fierce, wild, shadowy face and saw that the beetle eyes were crinkled in a smile.

'Las' time I saw you, you was only a baby,' said the giant. 'Yeh look a lot like yer dad, but yeh've got yer mum's eyes.'

Uncle Vernon made a funny rasping noise.

'I demand that you leave at once, sir!' he said. 'You are breaking and entering!'

'Ah, shut up, Dursely, yeh great prune,' said the giant. He reached over the back of the sofa, jerked the gun out of Uncle Vernon's hands, bent it into a knot as easily as if it had been made of rubber, and threw it into a corner of the room.

Uncle Vernon made another funny noise, like a mouse being trodden on.

Questions 1-6 are about Extract A

1) The giant squeezed his way into the hut, stooping so that his head just brushed the ceiling. Which word is closest in meaning to stooping? Circle one.

walking slouching strolling trailing

2) Uncle Vernon came *skidding* into the room.

What does the word *skidding* suggest about how Vernon is feeling?

3) Give one reason why Hagrid might seem frightening when he first appears?

4) When does Hagrid tell Harry that he last saw him?

5) Why do you think Harry is not scared of Hagrid?

6) In what ways is Vernon shown to be quite a ridiculous character in this section? Give an example.

'Anyway - Harry,' said the giant, turning his back on the Dursleys, 'a very happy birthday to yeh. Got sommat fer yeh here - I mighta sat on it at some point, but it'll taste all right.'

From an inside pocket of his black overcoat he pulled a slightly squashed box. Harry opened it with trembling fingers. Inside was a large, sticky chocolate cake with Happy Birthday Harry written on it in green icing.

Harry looked up at the giant. He meant to say thank you, but the words got lost on the way to his mouth, and what he said instead was, 'Who are you?'

The giant chuckled.

'True, I haven't introduced meself. Rubeus Hagrid, Keeper of the Keys and Grounds of Hogwarts.'

He held out an enormous hand and shook Harry's whole arm.

'What about that tea then, eh?' he said, rubbing his hands together. 'I'd not say no to summat stronger if yeh've got it, mind.'

His eyes fell on the empty grate with the shrivelled crisp packets in it and he snorted. He bent down over the fireplace; they couldn't see what he was doing but when he drew back a second later, there was a roaring fire there. It filled the whole damp hut with flickering light and Harry felt the warmth was over him as though he'd sunk into a hot bath.

The giant sat back down on the sofa, which sagged under his weight, and began taking all sorts of things out of the pockets of his coat: a copper kettle, a squashy package of sausages, a poker, a teapot, several chipped mugs and a bottle of some amber liquid which he took a swig from before starting to make some tea. Soon the hut was full of the sound and smell of sizzling sausage.

Nobody said a thing whilst the giant was working, but as he slid the first six fat, juicy, slightly burnt sausages from the poker, Dudley fidgeted a little. Uncle Vernon said sharply, 'Don't touch anything he gives you, Dudley.'

The giant chuckled darkly.

'Yer great puddin' of a son don' need fattenin' any more, Dursley, don' worry.'

He passed the sausages to Harry, who was so hungry he had never tasted anything so wonderful, but he still couldn't take his eyes off the giant. Finally, as nobody seemed about to explain anything, he said, 'I'm sorry, but I still don't know who you are.'

The giant took a gulp of tea and wiped his mouth with the back of his hand.

'Call me Hagrid,' he said, 'everyone does. An' like I told yeh, I'm the Keeper of the Keys at Hogwarts - yeh'll know all about Hogwarts, o'course.'

'Er-no,' said Harry.

Hagrid looked shocked.

'Sorry,' Harry said quickly.

Questions 7-12 are about Extract B

7) What is the first thing that Hagrid gives to Harry?

8) *He held out an enormous hand and shook Harry's whole arm.*

What two clues to the fact that Hagrid is a giant are given in the sentence above.

9) *He bent down over the fireplace; they couldn't see what he was doing but when he drew back a second later, there was a roaring fire there.*

What does the word *drew* mean in this context?

10) Why does Rowling list the contents of Hagrid's pockets?

11) How can the reader tell that Harry is confused or astonished by Hagrid. Write one example below.

12) What is unusual about the way that Hagrid speaks? Give an example.

English Activity 1b - reading comprehension

Read back through the extracts introducing Hagrid.

Draw your own picture of him with his huge coat laden with useful items.

Create a character sketch by adding words about his appearance and personality around your drawing. Can you find examples from the text to support your ideas?

Reading

You should be aiming to read for at least 20 minutes everyday. Find some time today to sit quietly and read.

Your parents have had a parentmail from Mrs Graham to say that you can now take Accelerated Reader quizzes from home by using this link [Howley Grange Renaissance at home](#) and logging on as usual using your username and password.

To check that the book you are reading has a quiz, you can check it using on [Accelerated Reader Bookfinder](#). It's okay to read books which haven't got a quiz - just keep a record of what you have read.

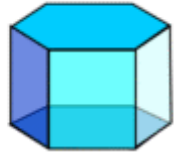
Keep reading and exploring new worlds and adventures!

Maths Activity 1a - ten in ten 😊

1) $20 + 0.6 + 0.02$

2) $360 \div 4$

3) How many edges?



3)

4) I have a litre bottle of cola. I drink 650ml. How much is left?

5) Which two numbers have a sum of 15 and a product of 36?

6) (1 gallon = 8 pints) How many pints make 6 gallons?

7) $4 \frac{1}{3} - 1 \frac{2}{3}$

8) Write down all the factors of 33. ____

9) Which of these numbers is **not** a multiple of 3?

81 111 73 27 105

10) Flight time from Houston to Orlando is 2 hours to 20 minutes. I arrive at Orlando at 4:15pm. What time did I set off?

You know the rule!

Ten minutes to answer ten questions 😊

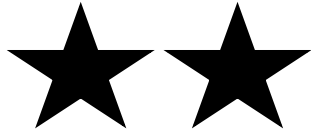
Maths Activity 1b - adding

Complete the 2star or 3star activity plus the challenge at the end.

You can use your Maths homework book or Maths revision book to write in.

Don't give up too easily. Well done!

Now work with a grown-up to check the answers (they are all at the end of the powerpoint). Discuss any answers which you didn't quite get. Can you see what went wrong?



Adding 3-digit and 4-digit numbers

1. $3575 + 2718$

5. $4578 + 234$

2. $5671 + 1482$

6. $8482 + 573$

3. $4289 + 245$

7. $7458 + 634$

4. $6582 + 1998$

8. $5678 + 3781$

Challenge

Write two additions with answers between 5000 and 10,000 where there are no 2s or 3s in any of the numbers.



Adding 4-digit and 5-digit numbers

1. $63,789 + 24,845$

6. $45,782 + 2845$

2. $27,045 + 16,839$

7. $28,341 + 5294$

3. $34,578 + 26,284$

8. $34,784 + 3997$

4. $74,286 + 52,153$

9. $72,458 + 8725$

5. $58,482 + 34,619$

10. $56,794 + 7537$

Challenge

Write two additions with answers between 20,000 and 30,000 where there are no zeros or fives in any of the numbers!

Maths Activity 1c - check your understanding

Complete the activity.

You can use your Maths homework book or Maths revision book to write in.

Don't give up too easily. Well done!

Now work with a grown-up to check the answers (they are all at the end of the powerpoint). Discuss any answers which you didn't quite get. Can you see what went wrong?

Check your understanding

Questions

Two numbers add together to equal 10,000.
One of the numbers is 2308.
What is the other number?

At the start of June, there were 4548 toy cars in the shop.
During December, 8728 more toy cars were delivered and 9473 toy cars were sold.
How many toy cars were left in the shop at the end of December?

Write the four missing digits to make this addition correct:

$$\square 6 \square 8 + 3 \square 9 \square = 9019$$

Explain why it would be sensible to choose different methods to solve (a) and (b) below. Then solve both.

(a) $67,493 + 21,561$

(b) $50,005 + 9998$

Complete the addition by finding \square , \clubsuit and \triangle :

$$\begin{array}{r} 12\square62 \\ + 938\clubsuit \\ \hline 2\triangle251 \\ \hline \end{array}$$

Science - Electricity

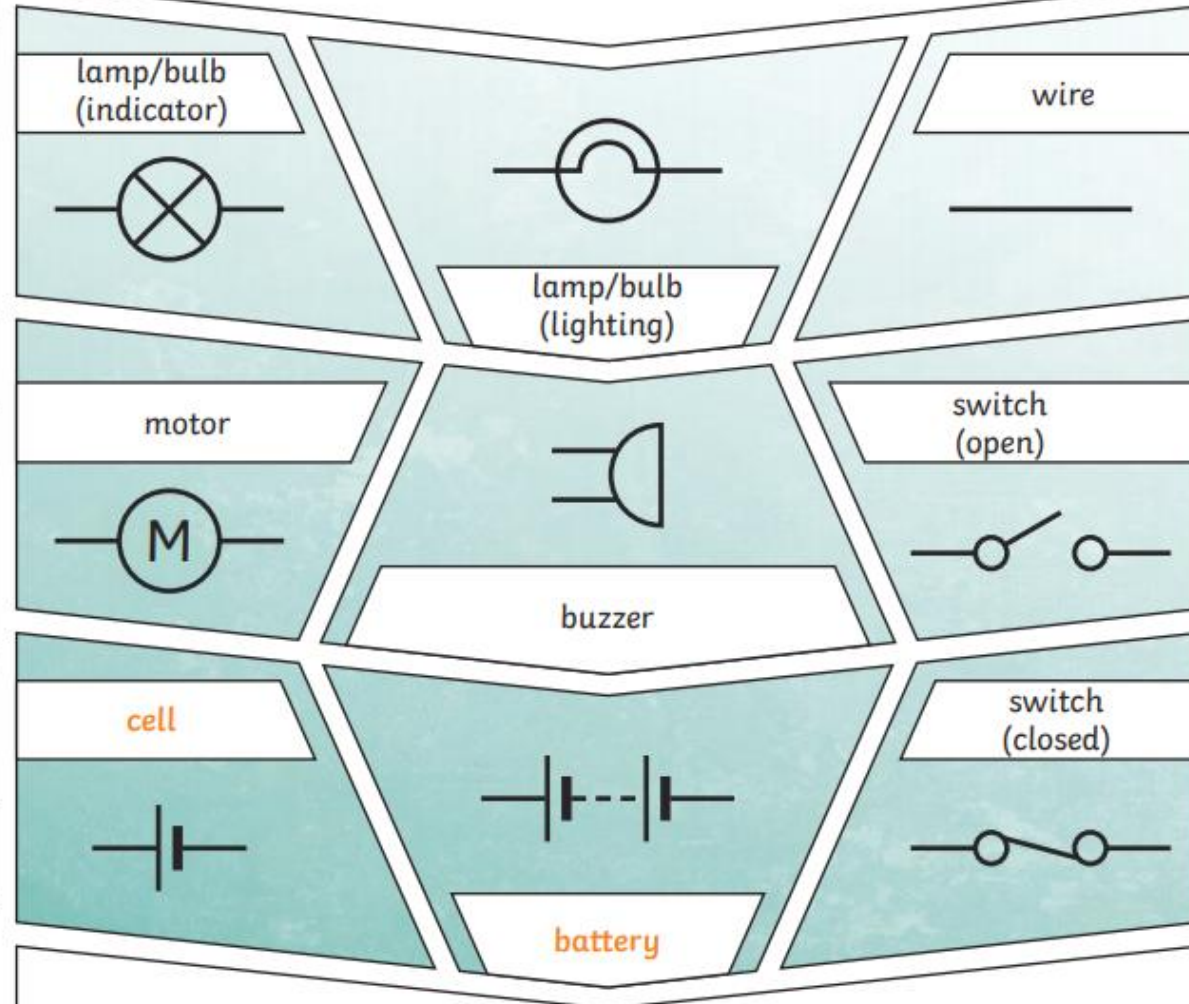
The following activities are to be done over the whole week so perhaps do a little bit each day.

We have added two Knowledge Postcards which shows everything that you need to know about electricity in Year 6 to help if you are stuck.

- Answer all of the questions on the slides
- Research a famous scientist linked to electricity such as Michael Faraday, Benjamin Franklin or Thomas Edison and create a biography about their life and work.
- Research the history of electricity and create a timeline for key events.

Key Vocabulary	
circuit	A path that an electrical current can flow around.
symbol	A visual picture that stands for something else.
cell/battery	A device that stores energy as a chemical until it is needed. A cell is a single unit. A battery is a collection of cells .
current	The flow of electrons , measured in amps .
amps	How electric current is measured.
voltage	The force that makes the electric current move through the wires. The greater the voltage , the more current will flow.
resistance	The difficulty that the electric current has when flowing around a circuit .
electrons	Very small particles that travel around an electrical circuit .

Key Knowledge

Components of a **Circuit** and Their **Symbols**

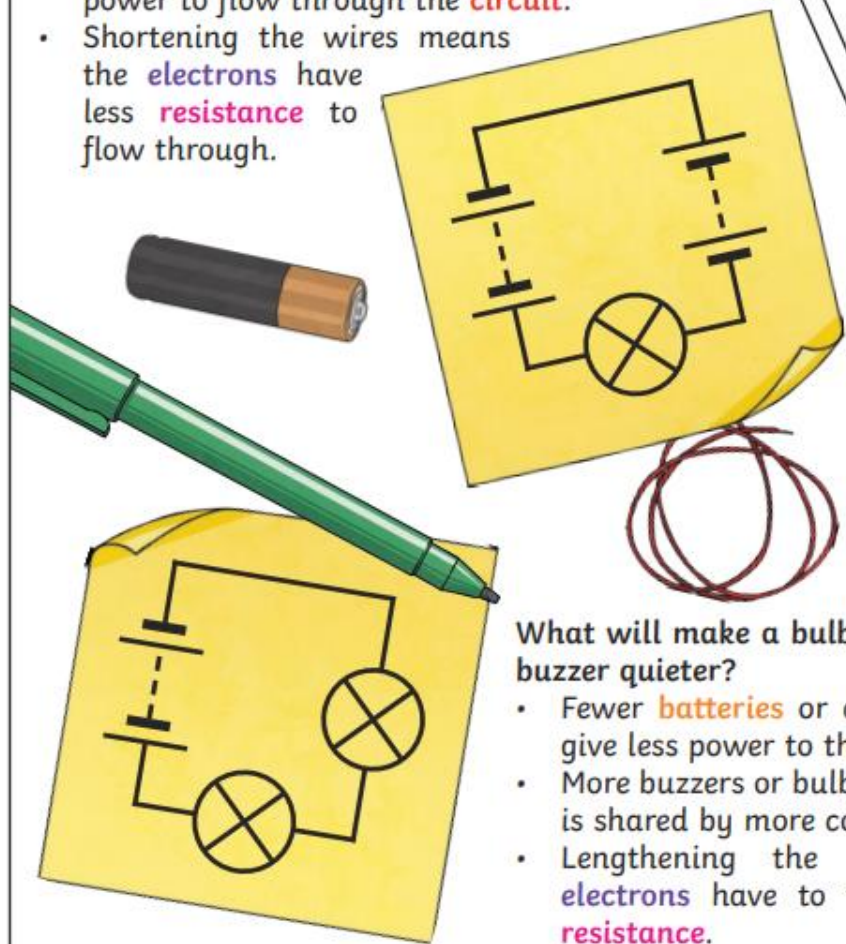
These **symbols** can be used to create electrical **circuit** diagrams.

To look at all the planning resources linked to the Electricity unit, [click here](#).

Key Knowledge

What will make a bulb brighter or a buzzer louder?

- More **batteries** or a higher **voltage** create more power to flow through the **circuit**.
- Shortening the wires means the **electrons** have less **resistance** to flow through.

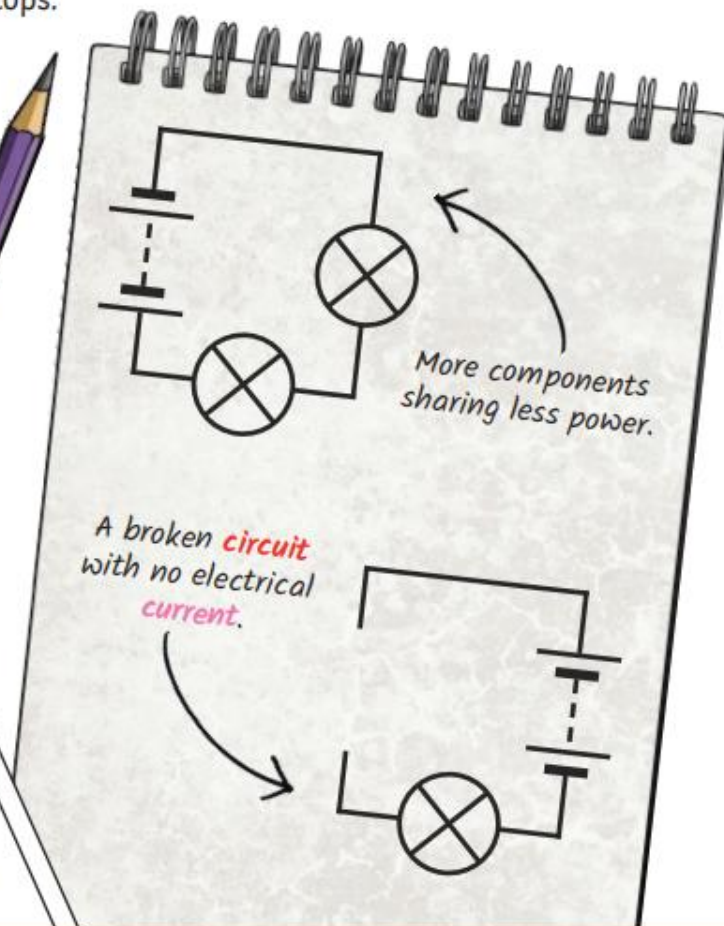


What will make a bulb dimmer or a buzzer quieter?

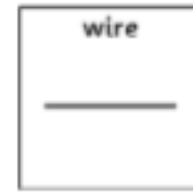
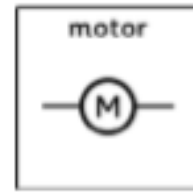
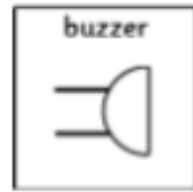
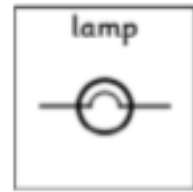
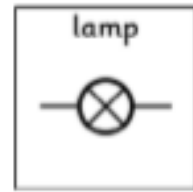
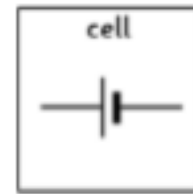
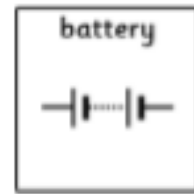
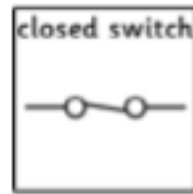
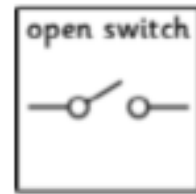
- Fewer **batteries** or a lower **voltage** give less power to the **circuit**.
- More buzzers or bulbs mean the power is shared by more components.
- Lengthening the wires means the **electrons** have to travel through more **resistance**.

Series Circuit

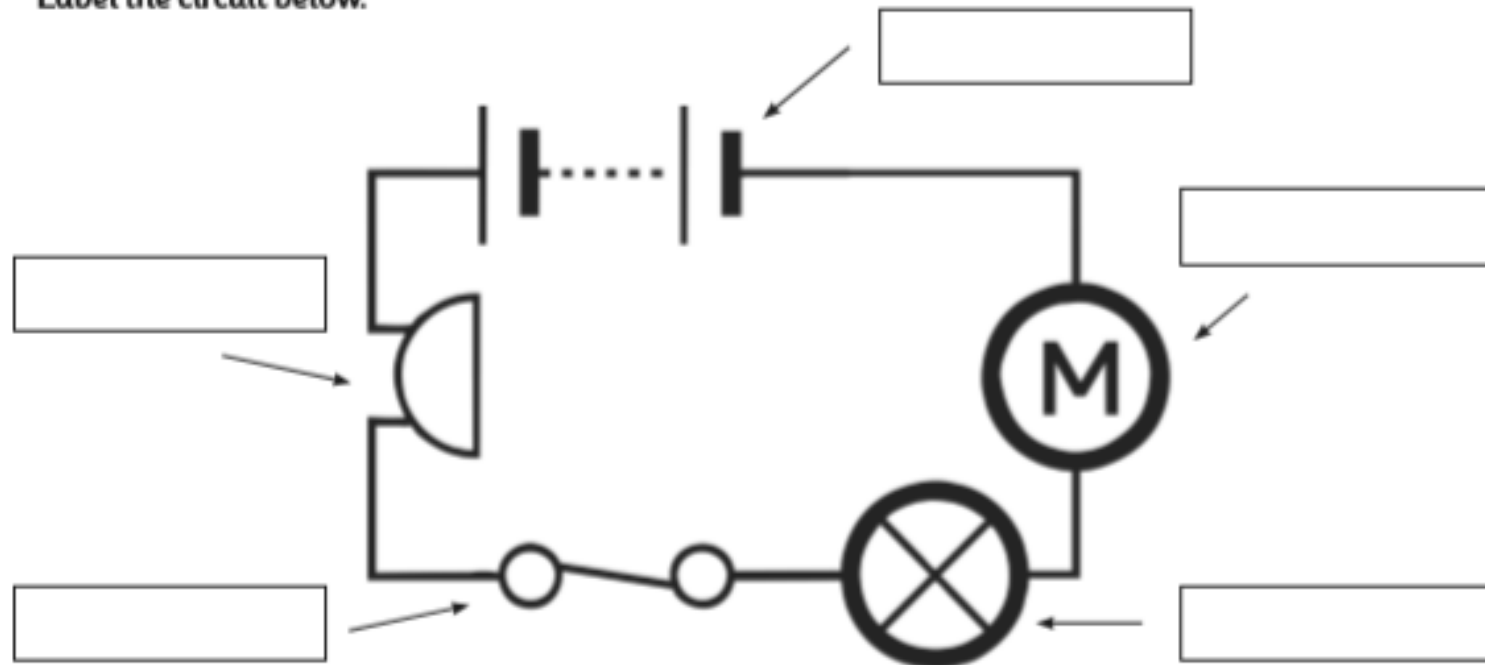
A **circuit** that has only one route for the **current** to take. If more bulbs or buzzers are added, the power has to be shared and so they will be dimmer or quieter. If just one part of this series **circuit** breaks, the **circuit** is broken and the flow of **current** stops.



Electricity flows in a circuit from the negative pole of a battery to its positive pole. The flow of electricity creates an electric current. There is a symbol to represent each component in an electrical circuit.



Label the circuit below.



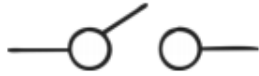
Drawing Circuits

1. Join up these symbols to their labels using lines.

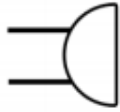
lamp/bulb



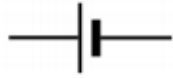
cell



open switch



closed switch



buzzer



battery



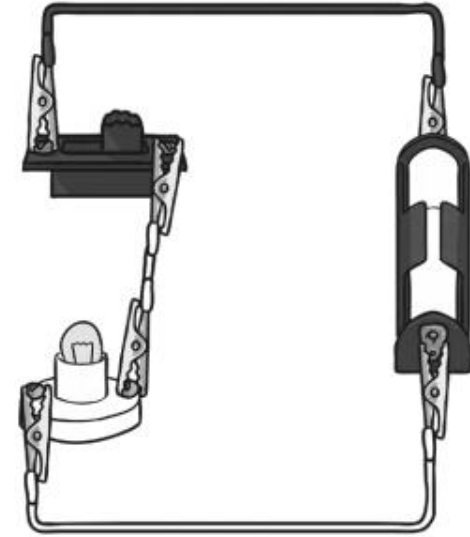
voltmeter



ammeter



2. Draw the diagram of this circuit below with an unlit bulb:



3. Name two ways that electricity can be generated.

4. Fill in the table by ticking the correct columns to say what happens to the bulb in each of these circuits:

	Bulb Lights	Bulb does not light	Bulb is dimmer than normal	Bulb is brighter than normal
A circuit with a battery, a bulb and an open switch.				
A circuit with two batteries, a closed switch and a bulb.				
A circuit with a closed switch, a buzzer, a battery and a bulb				
A circuit with a motor, a bulb and a closed switch.				
A circuit with a closed switch, a battery, a motor, a buzzer and a bulb.				

Tuesday 31st March

English Activity 2a - sentence sort

Complete Sentences?

- Sort the text boxes into complete sentences and not complete sentences. (*You could cut them out and sort them or use ticks and crosses on the sheet.*)
- Take 3-5 incomplete sentences and rewrite them to make them complete and correctly punctuated.

tried to grab the letter

she took it curiously and read the first line

for a moment, it looked as though she might faint

clutched her throat and made a choking noise

Harry and Dudley had a furious but silent fight over

his glasses dangling from one ear

seeming to have forgotten that Harry was in the room

as Dudley wasn't used to sharing

not moving

that evening, when Vernon got back from work

Harry stared

Harry sat down on the bed when

English Activity 2b - sentence editing

Read the following 4 letters carefully. Find all of the errors and correct them. HINT: Hagrid's letter might need some extra words adding. You can print the letters off and edit them or copy them correctly in your book. Write a comment to help the writers of each text to avoid their mistakes next time.

Dear Mr Potter,

We are pleased to inform you that you have been accepted at Hogwarts School of Witchcraft and Wizardry, please find enclosed a list of all necessary books and equipment, term begins on 1 September, we await your owl by no later than 31 July.

Yours sincerely,

Minerva McGonagall

(Deputy Headmistress)

Dear Mr Dumbledore,

Given Harry his letter. Taking him to buy his things tomorrow. Weather's horrible. Hope you're well.

Hagrid

Dear Padfoot!

Thank you for Harry's birthday present?

He's already zooming along on the toy

broomstick? He looked so pleased with

himself? I'm enclosing a picture so you can

see! You know it only rises about two feet

off the ground, but he nearly killed the cat

and he smashed a horrible vase Petunia

sent me for Christmas (no complaints

there). Of course, James thought it was

funny, He says he's going to be a great

Quidditch player, but we've had to pack

away all the ornaments@

dear mr hagrid,

further to our inquiry into the attack by a

hippogriff on a student in your class, we

have accepted the assurances of professor

dumbledore that you bear no responsibility

for the regrettable incident.

however, we must register our concern

about the hippogriff in question. We have

decided to uphold the official complaint of

Mr lucius malfoy. the hearing will take

place on april 20th, and we ask you to

present yourself and your hippogriff at the

committee's offices in london on that

date...

Reading

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Your parents have had a parentmail from Mrs Graham to say that you can now take Accelerated Reader quizzes from home by using this link [Howley Grange Renaissance at home](#) and logging on as usual using your username and password.

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Keep reading and exploring new worlds and adventures!

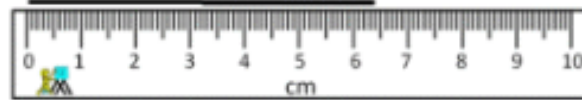
Maths Activity 2a - ten in ten 😊

1. How many faces does a triangular prism have?

2. In a group of children, $\frac{3}{5}$ like to play tennis. If there are 25 children, how many do not like tennis?

3. Timmy and Tommy are two boys whose ages add up to 23. Timmy is 5 years older than Tommy. How old are they?

4. How long is the line?



5. What is the **mean** of 13, 7, 8 and 4?

6. Which is the **smallest**?

0.37 0.194 0.6 0.473 0.29

7. $3\frac{2}{5} + 2\frac{1}{5}$

8. How much is half of a quarter?

9. A rectangular swimming pool measures $5\frac{1}{2}$ metres by $3\frac{1}{2}$ metres. What is the **perimeter**?

10. What do angles around a point add up to?

You know the rule!

Ten minutes to answer ten questions 😊

Maths Activity 2b - subtraction

Complete the 2star or 3star activity plus the challenge at the end.

You can use your Maths homework book or Maths revision book to write in.

Don't give up too easily. Well done!

Now work with a grown-up to check the answers (they are all at the end of the powerpoint). Discuss any answers which you didn't quite get. Can you see what went wrong?



Subtracting 4-digit numbers

Complete each subtraction.

1. $4582 - 2317$
2. $9635 - 2381$
3. $5056 - 3214$
4. $8264 - 2327$
5. $6523 - 3289$
6. $8236 - 5460$
7. $4562 - 1684$
8. $9450 - 5728$

Choose two of your subtractions to check with addition.

Challenge

Find the missing digits in this subtraction:

$$\square 4 1 \square - 1 \square 3 6 = 7 0 \square 7$$



Subtraction practice

1. $64,784 - 21,529$

2. $75,548 - 43,273$

3. $86,347 - 33,720$

4. $72,583 - 45,251$

5. $56,421 - 24,175$

6. $92,765 - 48,308$

7. 45,287 people live in South Oaktown. 38,145 people live in North Oaktown. What is the difference between their populations?

8. The odometer on a six-year old car shows 63,564 miles. In the first five years it had driven 52,382 miles. How many miles were driven last year?

Challenge

Write a word problem which involves subtracting 45,875 from 50,005. Then explain how you would do the subtraction if you were solving your own word problem!

Maths Activity 2c - check your understanding

Complete the activity.

You can use your Maths homework book or Maths revision book to write in.

Don't give up too easily. Well done!

Now work with a grown-up to check the answers (they are all at the end of the powerpoint). Discuss any answers which you didn't quite get. Can you see what went wrong?

Check your understanding

Questions

Use just the digits 4 and 5 to create a 5-digit – 5-digit subtraction to give an answer with at least two 9s.

Can you get 9091?

What is the smallest answer you can get?

What is the largest?

Explain why it would be sensible to choose different methods to solve (a) and (b) below.

(a) $67,493 - 21,561$

(b) $50,005 - 44,878$

Find the missing numbers in this subtraction:

$$\begin{array}{r} 12 \star 62 \\ - 93 \blacksquare 8 \\ \hline 311 \blacktriangle \end{array}$$

Wednesday 1st April

English Activity 3a - noun phrases

Start by reading the extracts on the following page. JK Rowling builds a picture of the scene in front of Harry. Think about how she does this. Good writing builds description through interesting word choice, including building **noun phrases**.

Find seven noun phrases in the text. There is a reminder of what noun phrases are on the next slide!

Once you have done this, complete the delicious noun phrases activity.

You can use your English homework book or English revision book to write in.

Extract from Chapter 5 Harry Potter and the Philosopher's Stone

'Welcome,' said Hagrid, 'to Diagon Alley.'

He grinned at Harry's amazement. They stepped through the archway. Harry looked quickly over his shoulder and saw the archway shrink instantly back in to solid wall.

The sun shone brightly on a stack of cauldrons outside the nearest shop. *Cauldrons – All sizes – Copper, Brass, Pewter, Silver – Self-Stirring – Collapsible* said a sign hanging over them.

'Yeah, you'll be needin' one,' said Hagrid, 'but we gotta get yer money first.'

Harry wished he had about eight more eyes. He turned his head in every direction as they walked up the street, trying to look at everything at once: the shops, the things outside them, the people doing their shopping. A plump woman outside an apothecary's was shaking her head as they passed, saying, 'Dragon liver, seventeen Sickles an ounce, they're mad...'

A low, soft hooting came from a dark shop with a sign saying *Eeylops Owl Emporium – Tawny, Screech, Barn, Brown and Snowy*. Several boys of about Harry's age had their noses pressed against a window with broomsticks in it. 'Look,' Harry heard one of them say, 'the new Nimbus Two Thousand – fastest ever –' There were shops selling robes, shops selling telescopes and strange silver instruments Harry had never seen before, windows stacked with barrels of bat spleens and eels' eyes, tottering piles of spell books, quills and rolls of parchment, potion bottles, globes of the moon...

'Gringotts,' said Hagrid.

They had reached a snowy-white building which towered over the other little shops. Standing beside its burnished bronze doors, wearing a uniform of scarlet and gold, was –

'Yeah, that's a goblin,' said Hagrid quietly as they walked up the white stone steps towards him. The goblin was about a head shorter than Harry. He had a swarthy, clever face, a pointed beard and, Harry noticed, very long fingers and feet. He bowed as they walked inside.

Noun Phrases Revision Cards

Nouns

A **noun** names a person, place, idea, thing or feeling.

a wand
the cauldron
an owl
scales

In front of a **noun**, we often have

a an the

determiners

Adjectives

An **adjective** is a describing word. It tells you more about a **noun**.

noun phrases
a new magic wand
the pewter cauldron
a powerful owl
brass scales

A **noun phrase** adds extra detail to the **noun**.

These **noun phrases** include **nouns**, **adjectives** and **determiners**.

We can test a **noun phrase** by seeing if it can be replaced by a **pronoun**.

He put *the new cauldron* in his pocket.

He put **it** in his pocket.

noun phrases

a new magic wand
the pewter cauldron
a powerful owl
brass scales

A **noun phrase** adds extra detail to the **noun**.

Expanded Noun Phrases

You can develop an **expanded noun phrase** by adding a **prepositional phrase**.

the battered, pewter cauldron

the battered, pewter cauldron in the shop

the battered, pewter cauldron with silver handles

the battered, pewter cauldron at the back

The **prepositional phrase**

modifies the **noun**...

and expands the image of the noun.

noun phrases

a new magic wand
the pewter cauldron
a powerful owl
brass scales

Prepositions

with, of, by, from, on, under, below, between, inside, next to, over, by, in

Now you try!

Expand these head nouns:

hat

a creased, felt hat with a dusty smell

telescope

owl

toad

broomstick

Remember

- noun phrases have head (main) noun
- noun phrases add detail about the head noun
- noun phrases can be replaced by a pronoun



Prepositions

with, of, by, from, on, under, below, between, inside, next to, over, by, in

Delicious Noun Phrases

- Invent new treats that might be enjoyed in the magical world of Harry Potter.
- Begin with a **noun** and develop, adding **adjectives**, **adverbs**, **determiners**, and **prepositional phrases** until you have a tempting expanded noun phrase.
- Check that the expanded noun phrase works by putting it in a sentence and replacing it with a pronoun.



some horribly enchanted, fly-covered
fudge

those absolutely snot-green frog cakes

an every flavour exploding toffee

the last grumbling truffle covered in
moon dust

Other useful Nouns
drops
rings
sticks
mixture
toffee
pops
twists
pie

**Remember – a
noun phrase can be
replaced by a
pronoun**

English Activity 3b - relative clauses

Use the next slide to remind yourself all about relative clauses then complete the three activities afterwards. Try to make your answers to the last activity as interesting as possible!

You can use your English homework book or English revision book to write in.

Don't give up too easily. Well done!

Now work with a grown-up to check the answers (they are all at the end of the powerpoint). Discuss any answers which you didn't quite get. Can you see what went wrong?

Relative Clauses Revision Cards

Relative clauses can give more information about a **noun** or **pronoun**.

They usually begin with a relative pronoun.

Hagrid searched in his pockets.

Tell me more about **Hagrid**.

Hagrid, who had squashed the cake in earlier, searched in his pockets.

Hagrid, who had lost his keys, searched in his pockets.

Tell me more about **the pockets**.

Hagrid searched in his pockets which were larger than potato sacks.

Hagrid searched in his pockets that wriggled with unknown horrors.



Relative Pronouns (& Relative Adverbs)

who, which, whom, whose, that, (where, when)



Relative clauses can also relate to a whole clause.

Neville lost his toad.



This is a clause.

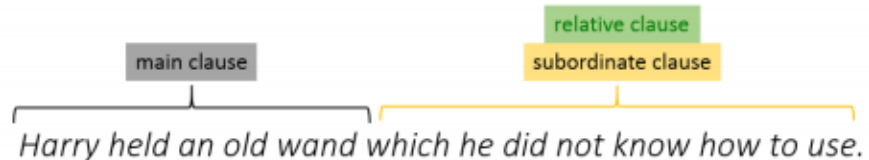
Neville lost his toad which meant he was in trouble.

It was not the toad which got Neville in trouble: it was the *losing of the toad*. The **relative clause** relates to the whole clause.



Punctuating Relative Clauses

When the order is **main clause** + **relative clause** → *no comma*.



A comma would create an *unnecessary break* in the sentence.

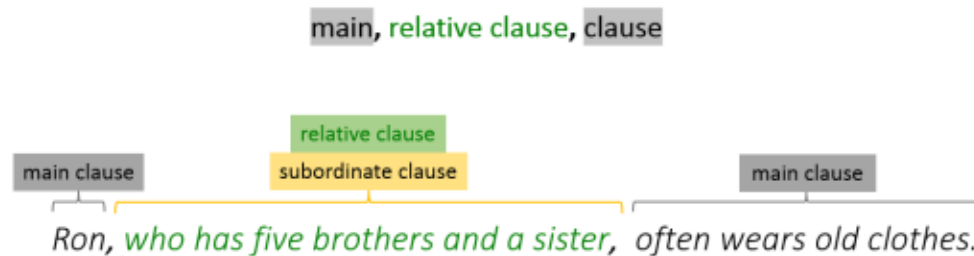
The **relative clause** tells us information needed to make sense of the main clause.

We know which wand he is holding.



Punctuating Relative Clauses

When the **relative clause** splits the **main clause** → *commas*.



Commas separate the **relative clause** from the main clause.



Identify the relative clause and relative pronoun in each sentence.

- 1) Hedwig, who was Harry's owl, hooted irritably.
- 2) Hermione had read all of the books which bulged in her bag.
- 3) Harry wore glasses that were scratched and battered.
- 4) Dudley piled up his presents which he got on his birthday.
- 5) The hut, where Vernon had taken them, shook in the wind.
- 6) Aunt Petunia, who was rather nosey, flicked the curtains.

Continue identifying relative clauses and pronouns.
Also, add **commas** where they are needed.

- 7) Dudley who was going to Smeltings School waved his stick proudly.
- 8) Harry who could not find his train asked for help.
- 9) The platform which was hidden was only for non-muggles.
- 10) The letters which were addressed to Harry arrived every day.
- 11) Waiting at the corner was a cat which was no ordinary cat.
- 12) He who must not be named gave Harry his scar.

Try adding your own relative clauses to the sentences below.
Write your new sentences, thinking carefully about punctuation.

Harry and Hagrid arrived at Gringotts bank.

It was a snowy-white building.

They walked inside the bank.

A goblin showed them through some silver doors.

Harry and Hagrid were now in a vast marble hall.

About a hundred more goblins were working behind a long counter.

Hagrid showed his key.

Reading

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Keep reading and exploring new worlds and adventures!

Maths Activity 3a - ten in ten 😊

1. Find $\frac{3}{4}$ of £32.

2. $1 - 0.92$

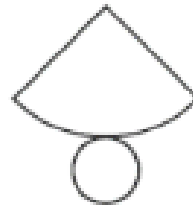
3. Find the value of $(x - 6)/3$ if $x = 21$.

4. $10 \times 4 = 26 + \underline{\quad}$

5. Round 6.283 to 1dp

6. What is the missing number? 7.3 8.1 8.5 8.9

7. What 3d shape is this the net for?



8. At a wildlife centre, adult entry is £12 and child entry is £8. I pay for 2 adults and 3 children with a £50 note. How much change?

9. The time is a quarter to 7 in the evening. Write this in 24-hour time.

10. A kid's skipping rope is 210 cm long. How many ropes could I cut from a 10-metre-long piece of rope?

You know the rule!

Ten minutes to answer ten questions 😊

Maths Activity 3b - adding decimals

Complete the activity plus the challenge at the end.

You can use your Maths homework book or Maths revision book to write in.

Don't give up too easily. Well done!

Now work with a grown-up to check the answers (they are all at the end of the powerpoint). Discuss any answers which you didn't quite get. Can you see what went wrong?

Learning Reminders

Use written addition to add numbers with 3 decimal places.

Use written addition to calculate $4.72 + 3.45$.

$$45.7 + 3.45$$

$$\begin{array}{r} 45.7 \\ + 3.45 \\ \hline \end{array}$$

What is wrong with this layout?

The columns need to be aligned correctly; we need to align tenths with tenths, etc. The easy way to do this is to align the decimal point in each number.

$$\begin{array}{r} 45.7 \\ + 3.45 \\ \hline 49.15 \end{array}$$

Practice Sheet

Adding measures

Part A

Find three pairs of distances with a total between 9 and 10 metres.

6.34m 2.26m 2.89m 4.75m 3.18m 6.68m 5.04m 4.2m

Part B

Find three pairs of masses/weights with a total of between 15 and 16 kilograms.

10.252kg 5.826kg 9.421kg 5.213kg 4.934kg 7.853kg 7.729kg

Part C

Find three pairs of capacities with a total of between 10 and 11 litres.

8.234 litres 4.872 litres 6.123 litres 1.836 litres 1.9 litres 5.67 litres 2.45 litres

Maths Activity 3c - check your understanding

Check your understanding Questions

Add 3.21 and 32.1

Add 4.32 and 43.2

Add 5.43 and 54.3

BEFORE doing the addition, can you predict the answer to 6.54 and 65.4?

Write the missing digits in this addition calculation:

$$\begin{array}{r} \square . 6 \square 8 \\ + 26 . \square 5 6 \\ \hline \square 1 . 3 9 \square \end{array}$$

Thursday 2nd April

English Activity 4a - apostrophes

We have put together lots of activities about apostrophes.

Remember there are two types:

- apostrophes for contraction
- apostrophes for possession

Use the next slide to help if you need a reminder!

You can use your English homework book or English revision book to write in.

Now work with a grown-up to check the answers (they are all at the end of the powerpoint). Discuss any answers which you didn't quite get. Can you see what went wrong?

Apostrophes Revision Cards

Apostrophes show **contractions**.

I'm
can't
you'll
you've
didn't
it's

Match the
contractions to the
words with the same
meaning.



it is
I am
cannot
did not
you have
you will

Contractions

Contractions show the way that we **actually speak**.



We tend to speak quite quickly, with our words shortening.
Sometimes we **miss out sounds** completely.

We might write:

*You do not know you will make
a fool of yourself.*

but we are more likely to say:

*You don't know you'll
make a fool of yourself.*

Apostrophes show **possession**

To show **possession** we add **'s** to the end of the **noun**.

The owl owns
its wings.



Ron
school
owl
spider

Ron's rat does nothing.

The school's rules are strict.

The owl's wings wafted the room.

The spider's fangs were huge.

Possession means that something is *owned* by the **noun**.

The **'s** goes at the end of the **noun** when it is singular.

Apostrophes show **possession**

Plural Possessive - s

If the **noun** already ends in **s** because it is **plural**...
add **'** to the end of that **noun**.

girls the girls' dormitory
twins the twins' tricks
teachers the teachers' table
owls the owls' hoots

The **'** goes at the end
of the **noun**.



If we added another **s** to a **plural noun** it would be hard to say!

Apostrophes - Contractions

Underline the apostrophes which indicate **contraction**.

Neville's parcel isn't what he expected. It's a Remembrall from his grandmother.

Harry's owl didn't bring him post usually, so he wasn't expecting anything.

Ron wouldn't like to be Hermione's partner as they'd end up arguing.

Malfoy's cruelty couldn't be ignored by Harry. He wouldn't say such things.

Replace the contractions with the **expanded forms** of the words.

We'll meet you in the trophy room that's always locked.

Can't a person eat in peace in this place?

You mustn't go wandering round the school at night. Think of the points you'll lose Gryffindor if you're caught.

Apostrophes – Possession (singular)

Underline the apostrophes which indicate **possession**.

At eight o'clock the arrival of the owls interrupted Hermione's lecture.

Harry hadn't had a single letter since Hagrid's note.

Malfoy's owl was always bringing him packages from his parents.

Neville's gift glowed red which meant he'd forgotten something.

Punctuate the sentences below to show **possession**.

Hint: One sentence does not need any apostrophes.

Professor Snapes lessons were always difficult and Harrys temper was tested.

Herbology was taught in the schools greenhouses.

Professor Binns lessons were very boring.

Professor Flitwick taught Charms on a pile of his books.

Tick one box in each row to show whether the apostrophe is used for a **contracted form** or **possession**.

Sentence	Apostrophe - contracted form	Apostrophe - possession
Be quiet in Snape's lessons.		
Neville's in trouble with McGonagall.		
Quidditch is the school's main sport.		
Mrs Norris has bulging eyes like Filch's.		
You'll be sorry you crossed me.		

Apostrophes – Possession (plural)

Tick the sentences which show the correct meaning.

<i>The boy's cauldron melted into a twisted blob.</i>	Two boys, who were sharing a cauldron, melted it.
<i>The boys' cauldron melted into a twisted blob.</i>	
<i>The girl's toilets were haunted.</i>	The toilets, which are used by all of the girls, have a ghost living there
<i>The girls' toilets were haunted.</i>	
<i>The twin's plan was cunning.</i>	Fred had a cunning plan which he had not shared with George.
<i>The twins' plan was cunning.</i>	
<i>The bat's cave was dark.</i>	A solitary bat sleeps in a tiny cave for one.
<i>The bats' cave was dark.</i>	

Reading

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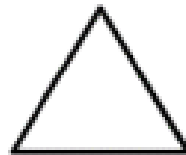
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Keep reading and exploring new worlds and adventures!

Maths Activity 4a - ten in ten 😊

- $\frac{1}{3} + \frac{1}{6}$
- Convert $1\frac{3}{4}$ into a decimal
- I am between 20 and 30. I am a multiple of both 3 and 4. Who am I?
- Round 5.824 to the nearest whole number.
- $4 \times 7 = 30 - \underline{\quad}$
- Find $\frac{3}{7}$ of 35
- The time is 7:35am. What is the time in the 24-hour clock?
- Which is the **largest**?
0.62 0.47 0.8 0.67 0.53 0.09
- 0.6×4
- How many lines of symmetry?



You know the rule!

Ten minutes to answer ten questions 😊

Maths Activity 4b - finding the difference

Complete the 2star or 3star activity plus the challenge at the end.

Remember to find the difference you need to subtract or count on using a number line.

You can use your Maths homework book or Maths revision book to write in.

Don't give up too easily. Well done!

Now work with a grown-up to check the answers (they are all at the end of the powerpoint). Discuss any answers which you didn't quite get. Can you see what went wrong?



Practice Sheet

Bargain hunt

After joining the local athletics club, you decide to stock up on some essential kit.

Team kit is only stocked in SportWorld and InLine Events, so you need to shop in one or both of those stores.

Here are their prices for the seven things on your shopping list:

Item	SportWorld	InLine Events	Cost difference
Trainers	£109	£105.55	
Team hoodie	£44.79	£45.20	
Team rucksack	£32.75	£29.79	
Annual track pass	£101.50	£98.75	
Water bottle	£3.75	£2.89	
Energy bars (box of 24)	£31.64	£33.05	
Cross-country shoes	£97.35	£111.29	

- Find the difference in cost for each item.
- If you had to go to just one of the shops, which would it be? Why?
- If you 'shop around' to buy every item as cheaply as possible:
 - How much will you spend?
 - What is the maximum saving you will make compared to shopping in either one of the stores?

Challenge

InLine Events decides to try to be more competitive with its prices, reducing all shoes by £3.49 per pair.
Does this make them cheaper than SportWorld for all your kit?
If so, by how much?



Practice Sheet

Bank Holiday leisure

Some families are planning activities and treats for the Bank Holiday weekend. The prices are shown below.

Activity	Adult	Child	Family Ticket
Visit to wildlife park	£18.75	£12.50	£59.90
Craft day	£15.99	£10.66	£42.40
Activity adventure	£17.23	£11.79	£53.60
Science museum	£7.62	£3.81	£20.10
Doughnut and drink	£4.79	£4.79	pay per person

Each family has a budget of £100. Work out the answers to the questions.

- How much does Rob have left after he takes himself and two children to the activity adventure?
- Suzanne pays for herself and her three grandchildren to visit the wildlife park.
 - How much money does she have left?
 - If she had bought a family ticket how much would she have saved?
- Hugh buys family tickets for the activity adventure and science museum.
 - How much money does he have left?
 - Later, he buys a doughnut and drink for 5 people. How much is left now?
- Four families buy family tickets for two different activities. How much money will each family have left over?
 - Peterson family: wildlife park and science museum.
 - McCartney family: craft day and activity adventure.
 - Singh family: craft day and science museum.
 - Novak family: activity adventure and science museum.

Challenge

Louise wants to take her two boys on a day out. She says none of the family tickets will save her any money. Is she right? Show your reasoning.

Maths Activity 4c - check your understanding

Check your understanding

Questions

Drinks are £2.99 each. A bag of crisps is 49p. Burgers are £4.99 each.
Find the total of two drinks, a burger and a bag of crisps.
Find the change from £20.

Frog does three hops: 51p, £2 and £10 to find change from £50.
How much was the item bought?

Write the missing number in this bar model:

£100			
£43.25	£9.65	£14	?

Friday 3rd April

English Activity 5a - time to write

Time to write - The Mirror of Erised.

Read the extract from Chapter 12.

Think about this: Erised is desire backwards. When people look into the mirror they see what their heart most desires.

Choose a character from Harry Potter, a character from a book you have read recently or choose yourself. What do you think they/you would see in the mirror? Write a detailed description of what they might see, giving the reader hints to why these images would appear. Describe how they/you came to be looking at the mirror - where is it? Why are they/you there? How does it make them/you feel? What happens afterwards?

Extract from Chapter 12 Harry Potter and the Philosopher's Stone

Read the extract below:

That third night he found his way more quickly than before. He was walking so fast he knew he was making more noise than was wise, but he didn't meet anyone.

And there were his mother and father smiling at him again, and one of his grandfathers nodding happily. Harry sank down to sit on the floor in front of the mirror. There was nothing to stop him staying here all night with his family. Nothing at all.

Except –

'So – back again, Harry?'

Harry felt as though his insides had turned to ice. He looked behind him. Sitting on one of the desks by the wall was none other than Albus Dumbledore. Harry must have walked straight past him, so desperate to get to the mirror he hadn't noticed him.

'I – I didn't see you, sir.'

'Strange how short-sighted being invisible can make you.' said Dumbledore, and Harry was relieved to see that he was smiling.

'So,' said Dumbledore, slipping off the desk to sit on the floor with Harry, 'you, like hundreds before you, have discovered the delights of the Mirror of Erised.'

'I didn't know it was called that, sir.'

'But I expect you've realised by now what it does?'

'It – well – it shows me my family –'

'And it showed your friend Ron himself as Head Boy.'

'How did you know -?'

'I don't need a cloak to become invisible,' said Dumbledore gently. 'Now, can you think what the Mirror of Erised shows us all?'

Harry shook his head.

'Let me explain. The happiest man on earth would be able to use the Mirror of Erised like a normal mirror, that is, he would look into it and see himself exactly as he is. Does that help?'

Harry thought. Then he said slowly, 'It shows us what we want... whatever we want...'

'Yes and no,' said Dumbledore quietly. 'It shows us nothing more or less than the deepest, most desperate desire of our hearts.

You, who have never known your family, see them standing around you. Ronald Weasley, who has always been overshadowed by his brothers, sees himself standing alone, the best of all of them. However, this mirror will give us neither knowledge or truth. Men have wasted away before it, entranced by what they have seen, or been driven mad, not knowing if what it shows is real or even possible.

'The Mirror will be moved to a new home tomorrow, Harry, and I ask you not to go looking for it again. If you ever *do* run across it, you will now be prepared. It does not do to dwell on dreams and forget to live, remember that. Now, why don't you put that admirable Cloak back on and get off to bed?'

Harry stood up.

'Sir – Professor Dumbledore? Can I ask you something?'

'Obviously, you've just done so,' Dumbledore smiled. 'You may ask me one more thing however.'

'What do you see when you look in the Mirror?'

'I? I see myself holding a pair of thick, woollen socks.'

Harry stared.

'One can never have enough socks,' said Dumbledore. 'Another Christmas has come and gone and I didn't get a single pair. People will insist on giving me books.'

It was only when he was back in bed that it struck Harry that Dumbledore might not have been quite truthful. But then, he thought, as he shoved Scabbers off his pillow, it had been quite a personal question.

Reading

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Maths Activity 5a - ten in ten 😊

1. Captain has £80. Flame has a £20 note plus seven £5 notes. How much more money does the Captain have?

2. (1 foot = 12 inches) How many inches is $5\frac{1}{2}$ feet?

3. Sally pays £25 for two tubes of paint: a blue tube and a red tube. The blue tube cost £7 more than the red tube. How much did each tube cost?

4. I am facing north-east. I turn a right angle clockwise. What direction am I facing now?

5. What is the missing angle?



6. $0.73 + \underline{\quad} = 1$

7. If $x + 9 = 13$, what is the value of x ?

8. $7 + (8 \times 6)$

9. $\frac{3}{5} - \frac{3}{10}$

10. Write 0.7 as a fraction

You know the rule!

Ten minutes to answer ten questions 😊

Learning Reminders

Use place value and tables facts to multiply and divide numbers with up to 2 decimal places.

$$4.2 \div 6$$

We know $42 \div 6$.
The answer to $4.2 \div 6$ will be $\frac{1}{10}$
of the answer to $42 \div 6$.

What about $1.8 \div 6$...

$$18 \div 6 = 3$$

So, $1.8 \div 6 = 0.3$

Count on 6 steps of 0.3 to check:
0.3, 0.6, 0.9....

Use place value and tables facts to multiply and divide numbers with up to 2 decimal places.

Now solve $0.48 \div 6$.

$0.48 \div 6$ is $\frac{1}{100}$ of the
answer to $48 \div 6$.

$$48 \div 6 = 8$$
$$4.8 \div 6 = 0.8$$

So, $0.48 \div 6 = 0.08$

What is $0.24 \div 6$?

What is $0.54 \div 6$?

What is $0.12 \div 6$?

What is $0.18 \div 6$?

What is $0.36 \div 6$?

What is $0.42 \div 6$?

Learning Reminders

Use partitioning to mentally multiply numbers with 1 and 2 decimal places, e.g. 4×3.6 and 4×0.36

$$4 \times 3.6$$

$$\begin{aligned} 4 \times 3.6 &= (4 \times 3) + (4 \times 0.6) \\ &= 12 + 2.4 \\ &= 14.4 \end{aligned}$$

Using **partitioning**...

We can partition 3.6, and multiply each part.

$$3 \times 0.47$$

$$\begin{aligned} 3 \times 0.47 &= (3 \times 0.4) + (3 \times 0.07) \\ &= 1.2 + 0.21 \\ &= 1.41 \end{aligned}$$

And now for 3×4.7 , recording the steps as above...

The answer is $\frac{1}{10}$ of the answer to 3×4.7 .

Another way to calculate 3×0.47 would be to find 3×47 and divide by 100...



Practice Sheet

Mental decimal multiplication and division

5×6

5×0.6

5×0.06

4×7

4×0.7

4×0.07

8×9

8×0.9

8×0.09

$15 \div 3$

$1.5 \div 3$

$0.15 \div 3$

$45 \div 5$

$4.5 \div 5$

$0.45 \div 5$

$48 \div 8$

$4.8 \div 8$

$0.48 \div 8$

Challenge

Find the missing numbers:

$\square \times 0.8 = 5.6$

$3.2 \times \square = 0.4$

$\square \div 9 = 0.07$



Practice Sheet

Mental decimal multiplication

Use partitioning to work out the answers to these multiplications.

$$\begin{aligned} 1. \quad & 3 \times 2.4 \\ & = (3 \times 2) + (3 \times 0.4) \\ & = \quad + \\ & = \end{aligned}$$

$$2. \quad 6 \times 2.4$$

$$3. \quad 5 \times 4.3$$

$$4. \quad 7 \times 4.3$$

$$5. \quad 4 \times 7.2$$

$$6. \quad 8 \times 10.7$$

$$7. \quad 9 \times 8.6$$

$$8. \quad 6 \times 5.8$$



Practice Sheet

Mental decimal multiplication and division

5×0.6

5×0.06

4×0.7

4×0.07

8×0.9

8×0.09

$1.5 \div 3$

$0.15 \div 3$

$4.5 \div 5$

$0.45 \div 5$

$4.8 \div 8$

$0.48 \div 8$

Challenge

Write your own multiplications with an answer of 3.6.

Write your own divisions with an answer of 0.06.



Practice Sheet

Mental decimal multiplication

Use partitioning to work out the answers to these multiplications.

1. 5×4.3

6. 7×8.4

2. 5×0.43

7. 3×0.26

3. 4×7.2

8. 3×0.72

4. 4×0.72

9. 6×0.64

5. 8×6.7

10. 4×0.58

Challenge

Write three multiplications of the form $\square \times \square . \square$ with an answer between 35 and 45.

You can only use each digit 1 to 9 once!

Maths Activity 5c - check your understanding

Check your understanding Questions

Write the first six facts in the 0.5 times table...

$$1 \times 0.5 = 0.5$$

$$2 \times 0.5 =$$

What is 4.5 divided by 0.5?

A metal tag is 0.7cm long.

How many tags can be cut from a strip of metal 6.3cm long.

How many tags could be cut from a strip of metal 70cm long

Use partitioning to find 28×6 . Now explain how to multiply

2.8 by 6.

Finally, write the answer to 0.28×6 without doing any further multiplication!

Answers

English Activity 1a - reading comprehension

Suggested Answers Questions 1-6 are about Extract A

1. Slouching

2. Accept answers that express: urgency, desperation to defend his beloved son, unexpected and uncontrollable feelings.

3. Accept any of the following:

His face was almost completely hidden

Wild tangled beard

He hit the door with such force that it swung clean off its hinges

His eyes were like beetles under all his hair

4. When Harry was (only) a baby

5. Because Hagrid talks about Harry's parents

6. Accept any of the following:

He made a funny rasping noise (illustrating his nerves)

Hagrid calls him a 'great prune'

Hagrid bent Vernon's gun into a knot

Vernon made a noise like a mouse being trodden on

English Activity 1a - reading comprehension

Suggested Answers Questions 7-12 are about Extract B

7. A squashed box with a large sticky chocolate cake in. Accept: cake

8. His hand is the size of a normal boy's arm and the word 'enormous' to describe Hagrid's hands - like a giant!

9. Accept answers that reflect the motion of stepping back, revealing.

10. Accept any of the following:

To show what a chaotic character Hagrid is.

To demonstrate that Hagrid is resourceful.

For the reader to try and guess and predict what Hagrid might need all those items for.

11. "I'm sorry, but I still don't really know who you are."


12. Accept an answer that identifies that he speaks with an accent / colloquial language plus one supporting piece of evidence from below.

"I knew yeh weren't getting' yer letters."

"an' like I told yer"

"Yer great puddin' of a son don' need fattenin' anymore"

Maths Activity 1a - ten in ten 😊

1)	$20 + 0.6 + 0.02$	20.62
2)	$360 \div 4$	90
3)	How many edges? 	18
4)	I have a litre bottle of cola. I drink 650ml. How much is left?	350ml
5)	Which two numbers have a sum of 15 and a product of 36?	3 and 12
6)	How many pints make 6 gallons?	48
7)	$4 \frac{1}{3} - 1 \frac{2}{3}$	$2 \frac{2}{3}$
8)	Write down all the factors of 33. ____ ____ ____ ____	1 3 11 33
9)	Which of these numbers is not a multiple of 3? 81 111 73 27 105	73
10)	Flight time from Houston to Orlando is 2 hours to 20 minutes. I arrive at Orlando at 4:15pm. What time did I set off?	1:55pm

Maths Activity 1b - adding

Practice Sheets Answers

★★ Adding 3-digit and 4-digit numbers

1. $3575 + 2718 = 6293$
2. $5671 + 1482 = 7153$
3. $4289 + 245 = 4534$
4. $6582 + 1998 = 8580$ quicker to work out mentally
5. $4578 + 234 = 4812$
6. $8482 + 573 = 9055$
7. $7458 + 634 = 8092$
8. $5678 + 3781 = 9459$

Challenge

Write two additions with answers between 5000 and 10,000 where there are no 2s or 3s in any of the numbers.

e.g. $4061 + 4694 = 8755$

★★★ Adding 4-digit and 5-digit numbers

1. $63,789 + 24,845 = 88,634$
2. $27,045 + 16,839 = 43,884$
3. $34,578 + 26,284 = 60,862$
4. $74,286 + 52,153 = 126,439$
5. $58,482 + 34,619 = 93,101$
6. $45,782 + 2845 = 48,627$
7. $28,341 + 5294 = 33,635$
8. $34,784 + 3997 = 38,781$ quicker to work out mentally
9. $72,458 + 8725 = 81,183$
10. $56,794 + 7537 = 64,331$

Challenge

Write two additions with answers between 20,000 and 30,000 where there are no zeros or fives in any of the numbers!

e.g. $11,226 + 8393 = 19,619$

Maths Activity 1c - check your understanding

Check your understanding

Answers

Two numbers add together to equal 10,000.

One of the numbers is 2308.

What is the other number? 7692

At the start of June, there were 4548 toy cars in the shop.

During December, 8728 more toy cars were delivered and 9473 toy cars were sold.

How many toy cars were left in the shop at the end of December? 3803

Write the four missing digits to make this addition correct:

$$5628 + 3391 = 9019$$

Explain why it would be sensible to choose different methods to solve (a) and (b) below. Then solve both.

(a) $67,493 + 21,561 = 89,054$ best solved by column addition as there are lots of different digits in each number and several instances where 'carrying' will be needed.

(b) $50,005 + 9998 = 60,003$ can be solved mentally with supporting jottings, by adding 10,000 and then subtracting 2.

Complete the addition by finding \square , \clubsuit and \triangle :

$$\begin{array}{r} 12862 \\ + 9389 \\ \hline 1111 \\ \hline 22251 \end{array}$$

English Activity 2a - sentence sort

tried to grab the letter X

seeming to have forgotten that Harry was in the room
v

she took it curiously and read the first line ✓

as Dudley wasn't used to sharing X

for a moment, it looked as though she might faint ✓

not moving X

clutched her throat and made a choking noise X

that evening, when Vernon got back from work X

Harry and Dudley had a furious but silent fight over X

Harry stared ✓

his glasses dangling from one ear X

Harry sat down on the bed when X

English Activity 2b - sentence editing

Dear Mr Potter,

We are pleased to inform you that you have been accepted at Hogwarts School of Witchcraft and Wizardry. Please find enclosed a list of all necessary books and equipment. Term begins on 1 September.

We await your owl by no later than 31 July.

Yours sincerely,

Minerva McGonagall

(Deputy Headmistress)

Dear Mr Dumbledore,

Given Harry his letter. Taking him to buy his things tomorrow. Weather's horrible. Hope you're well.

Hagrid

Dear Padfoot,

Thank you for Harry's birthday present. He's already zooming along on the toy broomstick. He looked so pleased with himself. I'm enclosing a picture so you can see! You know it only rises about two feet off the ground, but he nearly killed the cat and he smashed a horrible vase Petunia sent me for Christmas (no complaints there). Of course, James thought it was funny. He says he's going to be a great Quidditch player, but we've had to pack away all the ornaments.

Dear Mr Hagrid,

Further to our inquiry into the attack by a hippogriff on a student in your class, we have accepted the assurances of Professor Dumbledore that you bear no responsibility for the regrettable incident. However, we must register our concern about the hippogriff in question. We have decided to uphold the official complaint of Mr Lucius Malfoy. The hearing will take place on April 20th, and we ask you to present yourself and your hippogriff at the committee's offices in London on that date...

Maths Activity 2a - ten in ten 😊

1. How many faces does a triangular prism have?

5

2. In a group of children, $\frac{3}{5}$ like to play tennis. If there are 25 children, how many do not like tennis?

10

3. Timmy and Tommy are two boys whose ages add up to 23. Timmy is 5 years older than Tommy. How old are they?

Tommy 9
Timmy 14

4. How long is the line?



6.4cm

5. What is the **mean** of 13, 7, 8 and 4?

8

6. Which is the **smallest**?

0.37 0.194 0.6 0.473 0.29

0.194

7. $3\frac{2}{5} + 2\frac{1}{5}$

$5\frac{3}{5}$

8. How much is half of a quarter?

$\frac{1}{8}$

9. A rectangular swimming pool measures $5\frac{1}{2}$ metres by $3\frac{1}{2}$ metres. What is the **perimeter**?

18m

10. What do angles around a point add up to?

360°

Maths Activity 2b - subtraction

★ ★ Subtracting 4-digit numbers

1. $4582 - 2317 = 2265$
2. $9635 - 2381 = 7254$
3. $5056 - 3214 = 1842$
4. $8264 - 2327 = 5937$
5. $6523 - 3289 = 3234$
6. $8236 - 5460 = 2776$
7. $4562 - 1684 = 2878$
8. $9450 - 5728 = 3722$

Challenge

$$8413 - 1336 - 7077$$

★ ★ ★ Subtraction practice

1. $64,784 - 21,529 = 43,255$
2. $75,548 - 43,273 = 32,275$
3. $86,347 - 33,720 = 52,627$
4. $72,583 - 45,251 = 27,332$
5. $56,421 - 24,175 = 32,246$
6. $92,765 - 48,308 = 44,457$
7. $45,287 - 38,145 = 7142$. There is a difference of 7142 between their populations.
8. $63,564 - 52,382 = 11,182$. The car drove 11,182 miles in the last year.

Challenge

There are many possible answers here.

Maths Activity 2c - check your understanding

Check your understanding

Answers

Use just the digits 4 and 5 to create a 5-digit – 5-digit subtraction to give an answer with at least two 9s.
e.g. $55,544 - 44,555$. Other answers are possible; the key is to have 4s in the first number in the same place as 5s in the second.

Can you get 9091? $54,545 - 45,454$.

What is the smallest answer you can get? $55,555 - 55,554 = 1$.

What is the largest? $55,555 - 44,444 = 11,111$

Explain why it would be sensible to choose different methods to solve (a) and (b) below.

(a) $67,493 - 21,561 = 45,932$. Probably best by column subtraction, since neither number is close to 10,000s and exchanges between columns are needed.

(b) $50,005 - 44,878 = 5127$. Since 50,005 is just over 50,000 this can be solved by counting up (Frog) from 44,878

Find the missing numbers in this subtraction:

$$\begin{array}{r} 512 \\ 12462 \\ - 9348 \\ \hline 3114 \end{array}$$

English Activity 3b - relative clauses

Identify the relative clause and **relative pronoun** in each sentence.

- 1) Hedwig, who was Harry's owl, hooted irritably.
- 2) Hermione had read all of the books which bulged in her bag.
- 3) Harry wore glasses that were scratched and battered.
- 4) Dudley piled up his presents which he got on his birthday.
- 5) The hut, where Vernon had taken them, shook in the wind.
- 6) Aunt Petunia, who was rather nousey, flicked the curtains.

Continue identifying relative clauses and **pronouns**.
Also, add **commas** where they are needed.

- 7) Dudley, who was going to Smeltings School, waved his stick proudly.
- 8) Harry, who could not find his train, asked for help.
- 9) The platform, which was hidden, was only for non-muggles.
- 10) The letters, which were addressed to Harry, arrived every day.
- 11) Waiting at the corner was a cat, which was no ordinary cat.
- 12) He who must not be named gave Harry his scar.

Try adding your own relative clauses to the sentences below.

Write your new sentences, thinking carefully about punctuation.

Harry and Hagrid, **who.....**, arrived at Gringotts bank **which....**

It was a snowy-white building **which.....**

They walked inside the bank **which.....**

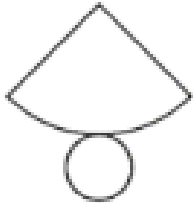
A goblin, **who...**, showed them through some silver doors **which.....**

Harry and Hagrid, **who ...**, were now in a vast marble hall **which....**

About a hundred more goblins, **whose...**, were working behind a long counter **which....**

Hagrid, **who...**, showed his key **that....**

Maths Activity 3a - ten in ten 😊

1. Find $\frac{3}{4}$ of £32.	£24
2. $1 - 0.92$	0.08
3. Find the value of $(x - 6)/3$ if $x = 21$.	5
4. $10 \times 4 = 26 + \underline{\quad}$	14
5. Round 6.283 to 1dp	6.3
6. What is the missing number? 7.3 <u> </u> 8.1 8.5 8.9	7.7
7. What 3d shape is this the net for? 	cone
8. At a wildlife centre, adult entry is £12 and child entry is £8. I pay for 2 adults and 3 children with a £50 note. How much change?	£2
9. The time is a quarter to 7 in the evening. Write this in 24 clock time.	18:45
10. A kid's skipping rope is 210 cm long. How many ropes could I cut from a 10-metre-long piece of rope?	4

Maths Activity 3b - decimals

Practice Sheet answers

Part A

$$6.34 + 2.89 = 9.23 \text{ m}$$

$$6.34 + 3.18 = 9.52 \text{ m}$$

$$2.89 + 6.68 = 9.57 \text{ m}$$

$$4.75 + 5.04 = 9.79 \text{ m}$$

Part C

$$8.234 + 1.836 = 10.07 \text{ litres}$$

$$8.234 + 1.9 = 10.134 \text{ litres}$$

$$8.234 + 2.45 = 10.684 \text{ litres}$$

$$4.872 + 6.123 = 10.995 \text{ litres}$$

$$4.872 + 5.67 = 10.542 \text{ litres}$$

Part B

$$10.252 + 5.213 = 15.465\text{kg}$$

$$10.252 + 4.934 = 15.186\text{kg}$$

$$5.826 + 9.421 = 15.247\text{kg}$$

$$7.853 + 7.729 = 15.582\text{kg}$$

Maths Activity 3c - check your understanding

Check your understanding

Answers

Add 3.21 and 32.1 **35.31**

Add 4.32 and 43.2 **47.52**

Add 5.43 and 54.3 **59.73**

BEFORE doing the addition, can you predict the answer to 6.54 and 65.4? **71.94 - The answers increase by 12.21 each time.**

If children are setting out in columns, a common error is a mis-aligning of the digits.

Write the missing digits in this addition calculation:

$$\begin{array}{r} \mathbf{4.638} \\ + \mathbf{26.756} \\ \hline \mathbf{111} \\ \hline \mathbf{31.394} \end{array}$$

As well as the missing digits, children should be recording the extra 1s digits when the digits in a column total more than 10.

English Activity 4a - apostrophes

ANSWERS Apostrophes - Contractions

Underline the apostrophes which indicate **contraction**.

Neville's parcel isn't what he expected. It's a Remembrall from his grandmother.

Harry's owl didn't bring him post usually, so he wasn't expecting anything.

Ron wouldn't like to be Hermione's partner as they'd end up arguing.

Malfoy's cruelty couldn't be ignored by Harry. He wouldn't say such things.

ANSWERS Apostrophes – Possession (singular)

Underline the apostrophes which indicate **possession**.

At eight o'clock the arrival of the owls interrupted Hermione's lecture.

Harry hadn't had a single letter since Hagrid's note.

Malfoy's owl was always bringing him packages from his parents.

Neville's gift glowed red which meant he'd forgotten something.

Punctuate the sentences below to show **possession**.

Hint: One sentence does not need any apostrophes.

Professor Snape's lessons were always difficult and Harry's temper was tested.

Herbology was taught in the school's greenhouses.

Professor Binn's lessons were very boring.

Professor Flitwick taught Charms on a pile of his books.

Tick one box in each row to show whether the apostrophe is used for a **contracted form** or **possession**.

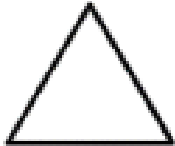
Sentence	Apostrophe - contracted form	Apostrophe - possession
Be quiet in Snape's lessons.		✓
Neville's in trouble with McGonagall.	✓	
Quidditch is the school's main sport.		✓
Mrs Norris has bulging eyes like Filch's.		✓
You'll be sorry you crossed me.	✓	

ANSWERS Apostrophes – Possession (plural)

Tick the sentences which show the correct meaning.

<i>The boy's cauldron melted into a twisted blob.</i>	Two boys, who were sharing a cauldron, melted it.
<i>The boys' cauldron melted into a twisted blob. ✓</i>	
<i>The girl's toilets were haunted.</i>	The toilets, which are used by all of the girls, have a ghost living there
<i>The girls' toilets were haunted. ✓</i>	
<i>The twin's plan was cunning. ✓</i>	Fred had a cunning plan which he had not shared with George.
<i>The twins' plan was cunning.</i>	
<i>The bat's cave was dark. ✓</i>	A solitary bat sleeps in a tiny cave for one.
<i>The bats' cave was dark.</i>	

Maths Activity 4a - ten in ten 😊

1. $\frac{1}{3} + \frac{1}{6}$	$\frac{1}{2}$ or $\frac{2}{4}$
2. Convert 1 $\frac{3}{4}$ into a decimal	1.75
3. I am between 20 and 30. I am a multiple of both 3 and 4. Who am I?	24
4. Round 5.824 to the nearest whole number.	6
5. $4 \times 7 = 30 - \underline{\quad}$	2
6. Find $\frac{3}{5}$ of 35	15
7. The time is 7:35am. What is the time in the 24-hour clock?	07:35 or 0735
8. Which is the largest ? 0.62 0.47 0.8 0.67 0.53 0.09	0.8
9. 0.6×4	2.4
10. How many lines of symmetry? 	3

Maths Activity 4b - finding the difference

Bargain hunt ★★

Item	SportWorld	InLine Events	Cost difference
Trainers	£109	£105.55	£3.45
Team hoodie	£44.79	£45.20	41p
Team rucksack	£32.75	£29.79	£2.96
Annual track pass	£101.50	£98.75	£2.75
Water bottle	£3.75	£2.89	86p
Energy bars (box of 24)	£31.64	£33.05	£1.41
Cross-country shoes	£97.35	£111.29	£13.94

2. Go to SportWorld, because the total cost is less there:
Total cost of all the items in SportWorld = £420.78
Total cost of all the items in InLine Events = £426.52
So you save £5.74 in SportWorld.

3. a) £410.76
b) Maximum saving is £15.76
[£426.52 (total in InLine Events) - £410.76 (cheapest total)]

Challenge

Making shoes cheaper reduces the cost of trainers and cross-country shoes, saving £6.98 (2 x £3.49).
This decreases the total cost at InLine Events to £419.54 (£426.52 - £6.98).
This means that the total cost at InLine Events is now £1.24 less than SportWorld.

Bank Holiday leisure ★★

1. £100 - £40.81 = £59.19 left.
2. a. £100 - £56.25 = £43.75 left.
b. The family ticket would have been an additional £3.65.
3. a. £100 - £73.70 = £26.30 left.
b. £4.79 x 5 - £23.95. £26.30 - £23.95 = £2.35 left.
4. a. £100 - £80 = £20 left. b. £100 - £96 = £4 left.
c. £100 - £62.50 = £37.50 left. d. £100 - £73.70 = £26.30

Challenge

Wildlife Park £43.75 versus £59.90
Craft day £37.31 versus £42.40
Activity adventure £40.81 versus £53.60
Science museum £15.24 versus £20.10
All of the family tickets are more expensive than buying 1 adult and 2 child tickets.

Maths Activity 4c - check your understanding

Check your understanding

Answers

Drinks are £2.99 each. A bag of crisps is 49p. Burgers are £4.99 each.

Find the total of two drinks, a burger and a bag of crisps. £11.46

Find the change from £20. £8.54.

Frog does three hops: 51p, £2 and £10 to find change from £50.

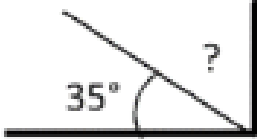
How much was the item bought? £37.49. Best solved by working backward from £50, effectively solving $£50 - £10 - £2 - 51p$.

Write the missing number in this bar model:

£100			
£43.25	£9.65	£14	£33.10

Add the three given amounts; then use counting up (Frog) to find the missing number.

Maths Activity 5a - ten in ten 😊

1. Captain has £80. Flame has a £20 note plus seven £5 notes. How much more money does the Captain have?	£25
2. (1 foot = 12 inches) How many inches is 5 ½ feet?	66 inches
3. Sally pays £25 for two tubes of paint: a blue tube and a red tube. The blue tube cost £7 more than the red tube. How much did each tube cost?	Blue £16 Red £9
4. I am facing north-east. I turn a right angle clockwise. What direction am I facing now?	south-east
5. What is the missing angle? 	55°
6. $0.73 + \underline{\quad} = 1$	0.27
7. If $x + 9 = 13$, what is the value of x ?	$x = 4$
8. $7 + (8 \times 6)$	55
9. $\frac{3}{5} - \frac{3}{10}$	$\frac{3}{10}$
10. Write 0.7 as a fraction	$\frac{7}{10}$

Maths Activity 5b - multiplying and dividing decimals

Practice Sheets Answers



Mental decimal multiplication and division

$5 \times 6 = 30$	$5 \times 0.6 = 3$	$5 \times 0.06 = 0.3$
$4 \times 7 = 28$	$4 \times 0.7 = 2.8$	$4 \times 0.07 = 0.28$
$8 \times 9 = 72$	$8 \times 0.9 = 7.2$	$8 \times 0.09 = 0.72$
$15 \div 3 = 5$	$1.5 \div 3 = 0.5$	$0.15 \div 3 = 0.05$
$45 \div 5 = 9$	$4.5 \div 5 = 0.9$	$0.45 \div 5 = 0.09$
$48 \div 8 = 6$	$4.8 \div 8 = 0.6$	$0.48 \div 8 = 0.06$

Challenge

Find the missing numbers:

$$\boxed{7} \times 0.8 = 5.6 \quad 3.2 \times \boxed{0.125} = 0.4 \quad \boxed{0.63} \div 9 = 0.07$$

Mental decimal multiplication

1. 3×2.4
 $= (3 \times 2) + (3 \times 0.4)$
 $= 6 + 1.2$
 $= 7.2$

2. 6×2.4
 $= (6 \times 2) + (6 \times 0.4)$
 $= 12 + 2.4$
 $= 14.4$

3. 5×4.3
 $= (5 \times 4) + (5 \times 0.3)$
 $= 20 + 1.5$
 $= 21.5$

4. 7×4.3
 $= (7 \times 4) + (7 \times 0.3)$
 $= 28 + 2.1$
 $= 30.1$

5. 4×7.2
 $= (4 \times 7) + (4 \times 0.2)$
 $= 28 + 0.8$
 $= 28.8$

6. 8×10.7
 $= (8 \times 10) + (8 \times 0.7)$
 $= 80 + 5.6$
 $= 85.6$

7. 9×8.6
 $= (9 \times 8) + (9 \times 0.6)$
 $= 72 + 5.4$
 $= 77.4$

8. 6×4.8
 $= (6 \times 4) + (6 \times 0.8)$
 $= 24 + 4.8$
 $= 28.8$

Mental decimal multiplication and division



$$\begin{array}{ll} 5 \times 0.6 = 3 & 5 \times 0.06 = 0.3 \\ 4 \times 0.7 = 2.8 & 4 \times 0.07 = 0.28 \\ 8 \times 0.9 = 7.2 & 8 \times 0.09 = 0.72 \\ 1.5 \div 3 = 0.5 & 0.15 \div 3 = 0.05 \\ 4.5 \div 5 = 0.9 & 0.45 \div 5 = 0.09 \\ 4.8 \div 8 = 0.6 & 0.48 \div 8 = 0.06 \end{array}$$

Challenge

Answers could include: $1.2 \times 3 = 3.6$, $1.8 \times 2 = 3.6$ or $6 \times 0.6 = 3.6$,
and
 $3.6 \div 6 = 0.6$, $1.8 \div 0.3 = 0.6$ or $1.2 \div 2 = 0.6$

Mental decimal multiplication

$$\begin{array}{l} 1. \quad 5 \times 4.3 \\ = (5 \times 4) + (5 \times 0.3) \\ = 20 + 1.5 \\ = 21.5 \end{array}$$

$$\begin{array}{l} 2. \quad 5 \times 0.43 \\ = (5 \times 0.4) + (5 \times 0.03) \\ = 2 + 0.15 \\ = 2.15 \end{array}$$

$$\begin{array}{l} 3. \quad 4 \times 7.2 \\ = (4 \times 7) + (4 \times 0.2) \\ = 28 + 0.8 \\ = 28.8 \end{array}$$

$$\begin{array}{l} 4. \quad 4 \times 0.72 \\ = (4 \times 0.7) + (4 \times 0.02) \\ = 2.8 + 0.08 \\ = 2.88 \end{array}$$

$$\begin{array}{l} 5. \quad 8 \times 6.7 \\ = (8 \times 6) + (8 \times 0.7) \\ = 48 + 5.6 \\ = 53.6 \end{array}$$

$$\begin{array}{l} 6. \quad 7 \times 8.4 \\ = (7 \times 8) + (7 \times 0.4) \\ = 56 + 2.8 \\ = 58.8 \end{array}$$

$$\begin{array}{l} 7. \quad 3 \times 0.26 \\ = (3 \times 0.2) + (3 \times 0.06) \\ = 0.6 + 0.18 \\ = 0.78 \end{array}$$

$$\begin{array}{l} 8. \quad 3 \times 0.72 \\ = (3 \times 0.7) + (3 \times 0.02) \\ = 2.1 + 0.06 \\ = 2.16 \end{array}$$

$$\begin{array}{l} 9. \quad 6 \times 0.64 \\ = (6 \times 0.6) + (6 \times 0.04) \\ = 3.6 + 0.24 \\ = 3.84 \end{array}$$

$$\begin{array}{l} 10. \quad 4 \times 0.58 \\ = (4 \times 0.5) + (4 \times 0.08) \\ = 2 + 0.32 \\ = 2.32 \end{array}$$

Challenge

Using digits 1 to 9 once only to give answers between 35 and 45 could include:

$$\begin{array}{lll} 8 \times 5.2 = 41.6 & 9 \times 4.1 = 36.9 & 7 \times 6.3 = 44.1 \text{ or} \\ 8 \times 5.3 = 42.4 & 4 \times 9.1 = 36.4 & 7 \times 6.2 = 43.4 \end{array}$$

Maths Activity 5c - check your understanding

Check your understanding

Answers

Write the first six facts in the 0.5 times table...

$$1 \times 0.5 = 0.5$$

$$2 \times 0.5 = 1$$

$$3 \times 0.5 = 1.5$$

$$4 \times 0.5 = 2$$

$$5 \times 0.5 = 2.5$$

$$6 \times 0.5 = 3$$

What is 4.5 divided by 0.5? 9 Complete the 0.5 table (above) to find that $9 \times 0.5 = 4.5$. Answers of 0.45 or 45 show confusion over place value related times table facts.

A metal tag is 0.7cm long.

How many tags can be cut from a strip of metal 6.3cm long? 9 since $0.7 \times 9 = 6.3$

How many tags could be cut from a strip of metal 70cm long? 100 since $0.7 \times 100 = 70$

Use partitioning to find 28×6 . Now explain how to multiply 2.8 by 6.

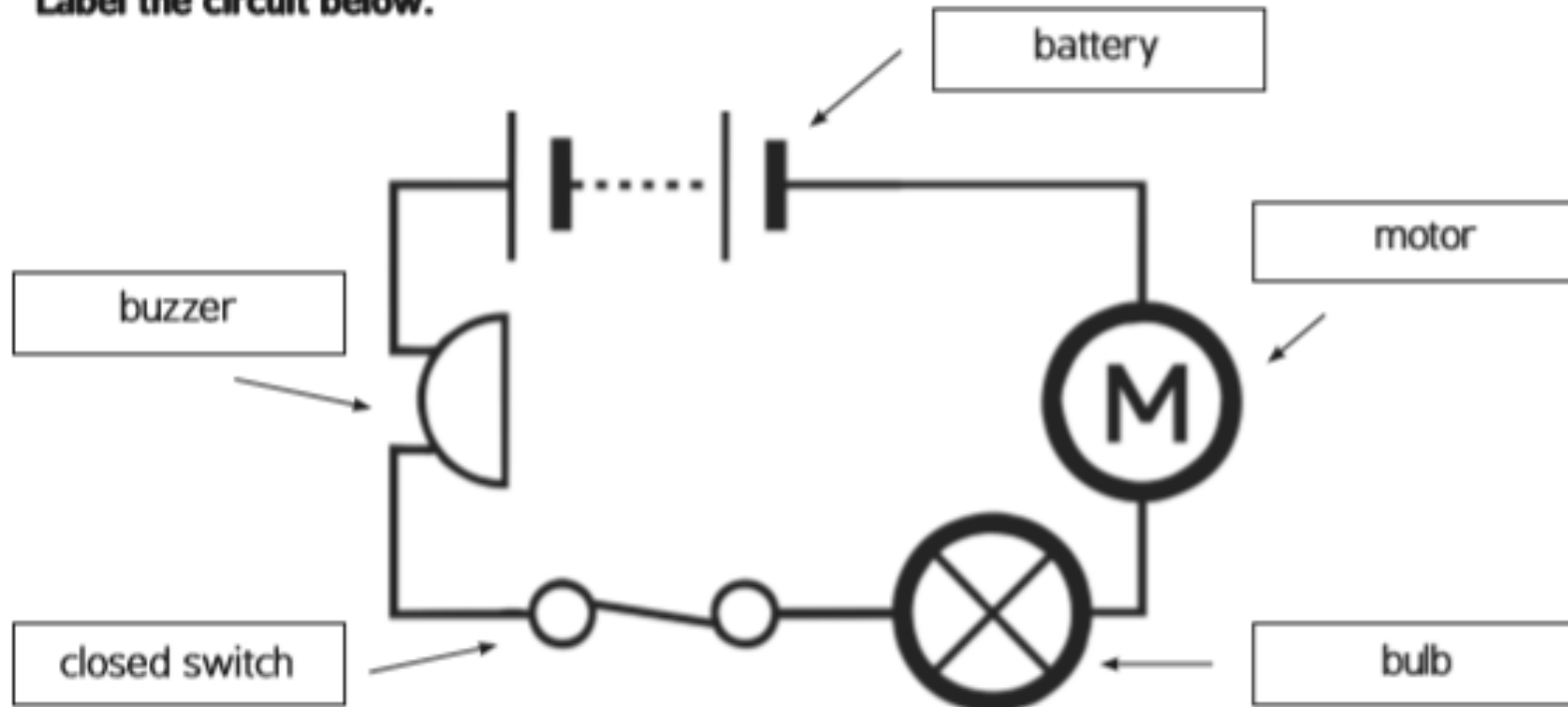
$$28 \times 6 = (20 \times 6) + (8 \times 6) = 120 + 48 = 168.$$

2.8 x 6 is 10 times smaller, i.e. 16.8

Finally, write the answer to 0.28×6 without doing any further multiplication! 0.28×6 is 10 times smaller than 2.8×6 , i.e. 1.68

Science - Electricity

Label the circuit below.



question	answer	marks	notes
1. Join up these symbols to their labels using lines.			
		4	<p>1 mark = 2-3 correct 2 marks = 4-5 correct 3 marks = 6-7 correct 4 marks = 8 correct</p> <p>No marks for 1 correct.</p>
2. Draw the diagram of this circuit below with an unlit bulb.			
	<p>1 mark each for:</p> <ul style="list-style-type: none"> An open switch and bulb A battery symbol - not a cell 	2	<p>NB: the switch should be shown open to indicate an unlit bulb.</p> <p>Components can be in any order in the circuit.</p> <p>The alternative bulb symbol is allowed.</p> <p>+ and - does not need to be drawn on the battery symbol.</p>
3. Name two ways that electricity can be generated.			
	<p>Any two answers from:</p> <ul style="list-style-type: none"> wind turbines solar panels biomass/coal/nuclear power stations hydro/water/wave power physical dynamo 	1	1 mark for two answers

question	answer	marks	notes			
4. Fill in the table by ticking the correct columns to say what happens to the bulb in each of these circuits:						
	Bulb Lights	Bulb does not light	Bulb is dimmer than normal	Bulb is brighter than normal		
A circuit with a battery, a bulb and an open switch .		✓			5	<p>1 mark for each row</p> <p>Where there are two ticks, both must be present for the mark</p> <p>Bold highlights the reasons for the ticks.</p>
A circuit with two batteries , a closed switch and a bulb.	✓			✓		
A circuit with a closed switch , a buzzer , a battery and a bulb	✓		✓			
A circuit with a motor, a bulb and a closed switch (no battery).		✓				
A circuit with a closed switch , a battery, a motor , a buzzer and a bulb.	✓		✓			